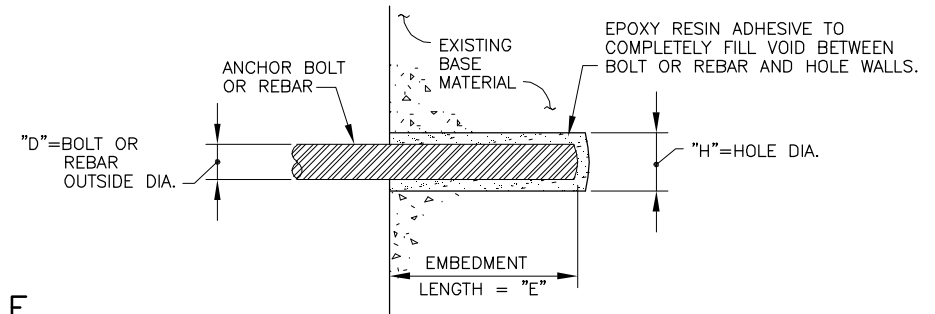


|              | BOLT OR REBAR<br>OUTSIDE DIAMETER<br>"D" (INCHES) | REQUIRED<br>EMBEDMENT LENGTH<br>"E" (INCHES) | REQUIRED<br>HOLE DIAMETER<br>"H" (INCHES) | REQUIRED ALLOWABLE<br>ADHESIVE BOND STRENGTH<br>IN 4,000 psi CONCRETE<br>USING S.F. = 4.0 |
|--------------|---------------------------------------------------|----------------------------------------------|-------------------------------------------|-------------------------------------------------------------------------------------------|
| ANCHOR BOLTS | 3/8                                               | 3 3/8                                        | 7/16                                      | 2,270                                                                                     |
|              | 1/2                                               | 4 1/2                                        | 9/16                                      | 4,360                                                                                     |
|              | 5/8                                               | 5 5/8                                        | 3/4                                       | 7,545                                                                                     |
|              | 3/4                                               | 6 3/4                                        | 7/8                                       | 9,735                                                                                     |
|              | 7/8                                               | 7 7/8                                        | 1                                         | 10,595                                                                                    |
|              | 1                                                 | 9                                            | 1 1/8                                     | 14,890                                                                                    |
|              | 1 1/4                                             | 11 1/4                                       | 1 3/8                                     | 22,940                                                                                    |
|              | 1 1/2                                             | 13 1/2                                       | 1 5/8                                     | 32,360                                                                                    |
| REBAR        | #3 BAR                                            | 4 1/2                                        | 1/2                                       | 3,970                                                                                     |
|              | #4 BAR                                            | 6                                            | 5/8                                       | 6,590                                                                                     |
|              | #5 BAR                                            | 7 1/2                                        | 3/4                                       | 9,825                                                                                     |
|              | #6 BAR                                            | 9                                            | 7/8                                       | 13,735                                                                                    |
|              | #7 BAR                                            | 10 1/2                                       | 1                                         | 18,210                                                                                    |
|              | #8 BAR                                            | 12                                           | 1 1/8                                     | 23,465                                                                                    |
|              | #9 BAR                                            | 13 1/2                                       | 1 3/8                                     | 32,015                                                                                    |



## TYPICAL EPOXY DOWELLING DETAIL & SCHEDULE

### NOTES:

1. DRILL HOLES, CLEAN OUT AND INSTALL EPOXY AND BOLT OR REBAR IN STRICT CONFORMANCE WITH EPOXY MANUFACTURER'S WRITTEN RECOMMENDATIONS. REFER TO CAST IN PLACE CONCRETE FOR EPOXY REQUIREMENTS.
2. UNLESS OTHERWISE INDICATED ON DRAWINGS, PROVIDE THE EMBEDMENT LENGTH AND HOLE DIAMETER INDICATED IN THE SCHEDULE ABOVE, FOR THE BOLT OR REBAR SIZE REQUIRED.
3. REQUIRED EPOXY BOND STRENGTHS ARE BASED ON A SAFETY FACTOR (S.F.) OF 4.0.
4. PROVIDE STAINLESS STEEL SCREEN RODS IN HOLES IN HOLLOW BASE MATERIALS (MASONRY CAVITY WALLS).
5. UNLESS OTHERWISE INDICATED ALL ANCHOR BOLTS SHALL BE OF GALVANIZED A36 THREADED ROD STOCK. WHERE STAINLESS STEEL ANCHORS ARE REQUIRED THEY SHALL BE AISI TYPE 316 (ASTM A193).



## EPOXY DOWELL DETAIL

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S.

DATE  
OF ISSUE: 02/05

SPEC. SECTION REF#: 03300

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